

FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
0942.3600003/RWE/BJDAPPLICATION NO.  
09/558,421APPLICANT  
Chatterjee, D.K.FILING DATE  
April 26, 2000GROUP  
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
mm2	AA1	4,962,020	10/09/1990	Tabor et al.	435	6	07/12/1988
	AB1	5,047,342	09/10/1991	Chatterjee, D.K.	435	194	08/10/1989
	AC1	5,079,352	01/07/1992	Gelfand et al.	536	27	05/15/1990
	AD1	5,173,411	12/22/1992	Tabor et al.	435	91	04/12/1991
	AE1	5,270,170	12/14/1993	Schatz et al.	435	7.37	10/16/1991
	AF1	5,270,179	12/14/1993	Chatterjee, D.K.	435	69.1	01/28/1992
	AG1	5,374,553	12/20/1994	Gelfand et al.	435	252.3	08/13/1990
	AH1	5,614,365	03/25/1997	Tabor et al.	435	6	11/10/1994
	AI1	6,001,645	12/14/1999	Slater et al.	435	320.1	06/07/1995
mm2	AJ1	6,306,588 B1	10/23/2001	Solus et al.	435	6	02/06/1998
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
mm2	AL1	EP 0 258 017 A2	03/02/1988	Europe	—	—	Yes No
	AM1	EP 0 351 138 A2	01/17/1990	Europe	—	—	Yes No
	AN1	WO 90/08839	08/09/1990	WIPO	—	—	Yes No
	AO1	EP 0 386 859 A2	09/12/1990	Europe	—	—	Yes No
mm2	AP1	WO 91/02090 A1	02/21/1991	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mm2	AR	1	Astatke, M., et al., "Deoxynucleoside Triphosphate and Pyrophosphate Binding Sites in the Catalytically Competent Ternary Complex for the Polymerase Reaction Catalyzed by DNA Polymerase I (Klenow Fragment)," <i>J. Biol. Chem</i> 270:1945-1954, American Society for Biochemistry and Molecular Biology, Inc. (January 1995).
	AS	1	Basu, A., and M.J. Modak, "Identification and Amino Acid Sequence of the Deoxynucleoside Triphosphate Binding Site in <i>Escherichia coli</i> DNA Polymerase I," <i>Biochemistry</i> 26:1704-1709, American Chemical Society (1987).
mm2	AT	1	Beese, L.S., et al., "Crystal Structures of the Klenow Fragment of DNA Polymerase I Complexed with Deoxynucleoside Triphosphate and Pyrophosphate," <i>Biochemistry</i> 32:14095-14101, American Chemical Society (1993).

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mm2	AL2	WO 91/16446 A1	10/31/1991	WIPO	—	—	Yes No
	AM2	EP 0 516 245 A1	12/02/1992	Europe	—	—	Yes No
	AN2	WO 93/02212 A1	02/04/1993	WIPO	—	—	Yes No
	AO2	EP 0 655 506 A1	05/31/1995	Europe	—	—	Yes No
mm2	AP2	WO 96/41014 A1	12/19/96	WIPO	—	—	Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mm2	AR	2	Bernad, A., et al., "A Conserved 3'-5' Exonuclease Active Site in Prokaryotic and Eukaryotic DNA Polymerases," Cell 59:219-228, Cell Press (1989).
	AS	2	Blanco, L., et al., "Evidence favouring the hypothesis of a conserved 3'-5' exonuclease active site in DNA-dependent DNA polymerases," Gene 112:139-144, Elsevier Science Publishers B.V. (1992).
mm2	AT	2	Braithwaite, D.K., et al., "Compilation, alignment, and phylogenetic relationships of DNA polymerases," Nucleic Acids Res. 21:787-802, Oxford University Press (1993).

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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	3	Carroll, S.S., et al., "A Mutant of DNA Polymerase I (Klenow Fragment) with Reduced Fidelity," <i>Biochemistry</i> 30:804-813, American Chemical Society (1991).
	AS	3	Das, S.K., et al., "Mechanism of T5-induced DNA Polymerase. I. Replication of Short Primer Templates," <i>J. Biol. Chem.</i> 252:8700-8707, American Society of Biological Chemists, Inc. (1977).
	AT	3	Das, S.K., et al., "Processiveness of DNA Polymerases: A Comparative Study Using a Simple Procedure," <i>J. Biol. Chem.</i> 254:1227-1232, American Society of Biological Chemists, Inc. (1979).

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	AP						Yes No

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mm2	AR	4	Delarue, M., et al., "An attempt to unify the structure of polymerases," <i>Prot. Engin.</i> 3:461-467, Oxford University Press (1990).
	AS	4	Donlin, M.J., et al., "Mutants Affecting Nucleotide Recognition by T7 DNA Polymerase," <i>Biochemistry</i> 33:14908-14917, American Chemical Society (December 1994).
mm2	AT	4	Dunn, J.J. and F.W. Studier, "Complete Nucleotide Sequence of Bacteriophage T7 DNA and the Locations of T7 Genetic Elements," <i>J. Mol. Biol.</i> 166:477-535, American Society for Biochemistry and Molecular Biology, Inc. (1983).

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	AR	<u>5</u>	Freemont, P.S., et al., "A Domain of the Klenow Fragment of <i>Escherichia coli</i> DNA Polymerase I Has Polymerase but No Exonuclease Activity," <i>Proteins: Struct., Funct., Genet.</i> 1:66-73, Alan R. Liss, Inc. (1986).
	AS	<u>5</u>	Fujimura, R.K. and B.C Roop, "Characterization of DNA Polymerase Induced by Bacteriophage T5 with DNA Containing Single Strand Breaks," <i>J. Biol. Chem.</i> 251:2168-2175, American Society of Biological Chemists, Inc. (1976).
	AT	<u>5</u>	Fujimura, R.K., et al., "Physical Locus of the DNA Polymerase Gene and Genetic Maps of Bacteriophage T5 Mutants," <i>J. Virol.</i> 53:495-500, American Society for Microbiology (1985).

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	AR	6	Gutman, P.D. and K.W. Minton, "Conserved sites in the 5'-3' exonuclease domain of <i>Escherichia coli</i> DNA polymerase," <i>Nucl. Acids Res.</i> 21:4406-4407, Oxford University Press (1993).
	AS	6	Ito, J. and D.K. Braithwaite, "Compilation and alignment of DNA polymerase sequences," <i>Nucl. Acids Res.</i> 19:4045-4057, Oxford University Press (1991).
	AT	6	Joyce, C.M., et al., "Nucleotide Sequence of the <i>Escherichia coli</i> polA Gene and Primary Structure of DNA Polymerase I," <i>J. Biol. Chem.</i> 257:1958-1964, American Society of Biological Chemists, Inc. (1982).

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mm2	AR	1	Joyce, C.M., and T.A. Steitz, "Function And Structure Relationships In DNA Polymerases," <i>Annu. Rev. Biochem.</i> 63:777-822, Annual Reviews Inc. (July 1994).
	AS	1	Joyce, C.M., "Can DNA polymerase I (Klenow fragment) serve as a model for other polymerases?," <i>Curr. Opin. Struct. Biol.</i> 1:123-129, Current Biology Ltd. (1991).
mm2	AT	1	Lawyer, F.C., et al., "Isolation, Characterization, and Expression in <i>Escherichia coli</i> of the DNA Polymerase Gene from <i>Thermus aquaticus</i> ," <i>J. Biol. Chem.</i> 264:6427-6437, American Society of Biological Chemists, Inc. (1989).

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mm	AR	8	Leavitt, M.C. and J. Ito, "T5 DNA polymerase: Structural-functional relationships to other DNA polymerases," <i>Proc. Natl. Acad. Sci. USA</i> 86:4465-4469, The National Academy of Sciences (1989).
	AS	8	Ollis, D.L., et al., "Structure of large fragment of <i>Escherichia coli</i> DNA polymerase I complexed with dTMP," <i>Nature</i> 313:762-766, Nature Publishing Group (1985).
mm	AT	8	Pandey, V.N., et al., "Role of Lysine 758 of <i>Escherichia coli</i> DNA Polymerase I as Assessed by Site-directed Mutagenesis," <i>J. Biol. Chem.</i> 269:13259-13265, American Society for Biochemistry and Molecular Biology, Inc. (May 1994).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
mmmm	AR	9	Pelletier, H., et al., "Structures of Ternary Complexes of Rat DNA Polymerase $\beta$ , a DNA Template-Primer, and ddCTP," <i>Science</i> 264:1891-1903, American Association for the Advancement of Science (June 1994).
	AS	9	Polesky, A.H., et al., "Identification of Residues Critical for the Polymerase Activity of the Klenow Fragment of DNA Polymerase I from <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 265:14579-14591, American Society for Biochemistry and Molecular Biology, Inc. (1990).
mmmm	AT	9	Prasad, V.R., et al., "Isolation and characterization of a dideoxyguanosine triphosphate-resistant mutant of human immunodeficiency virus reverse transcriptase," <i>Proc. Natl. Acad. Sci. USA</i> 88:11363-11367, The National Academy of Sciences (1991).

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mmr	AR	10	Reha-Krantz, L.J., et al., "Bacteriophage T4 DNA Polymerase Mutations That Confer Sensitivity to the PP <sub>i</sub> Analog Phosphonoacetic Acid," <i>J. Virol.</i> 67:60-66, American Society for Microbiology (1993).
	AS	10	Rhoades, M., "New Physical Map of Bacteriophage T5 DNA," <i>J. Virol.</i> 43:566-573, American Society for Microbiology (1982).
mmr	AT	10	Sawaya, M.R., et al., "Crystal Structure of Rat DNA Polymerase $\beta$ : Evidence for a Common Polymerase Mechanism," <i>Science</i> 264:1930-1935, American Association for the Advancement of Science (June 1994).

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	AP						Yes No

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mm2	AR	<u>11</u>	Slater, M.R. et al., "DNA Polymerase I of <i>Thermotoga neapolitana</i> (Tne) and Mutant Derivatives" (Abstract), Seventh International Genome Sequencing and Analysis Conference, p. P-47, Abstract No. A-33 (September 1995).
	AS	<u>11</u>	Song, Q., et al., "Mutagenesis of the Glu-89 Residue in Human Immunodeficiency Virus Type 1 (HIV-1) and HIV-2 Reverse Transcriptases: Effects on Nucleoside Analog Resistance," <i>J. Virol.</i> 66:7568-7571, American Society for Microbiology (1992).
mm2	AT	<u>11</u>	Sousa, R., et al., "Crystal structure of bacteriophage T7 RNA polymerase at 3.3 Å resolution," <i>Nature</i> 364:593-599, Nature Publishing Group (1993).

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mmr	AR	<u>12</u>	Stark, M.J.R., "Multicopy expression vectors carrying the <i>lac</i> repressor gene for regulated high-level expression of genes in <i>Escherichia coli</i> ," <i>Gene</i> 51:255-267, Elsevier (1987).
	AS	<u>12</u>	Tabor, S., et al., "Escherichia coli Thioredoxin Confers Processivity on the DNA Polymerase Activity of the Gene 5 Protein of Bacteriophage T7," <i>J. Biol. Chem.</i> 262:16212-16223, American Society for Biochemistry and Molecular Biology, Inc. (1987).
	AT	<u>12</u>	Tabor, S. and C.C. Richardson, "Selective Inactivation of the Exonuclease Activity of Bacteriophage T7 DNA Polymerase by <i>in Vitro</i> Mutagenesis," <i>J. Biol. Chem.</i> 264:6447-6458, American Society for Biochemistry and Molecular Biology, Inc. (1989).

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mm	AR	13	Tabor, S. and C.C. Richardson, "A single residue in DNA polymerases of the <i>Escherichia coli</i> DNA polymerase I family is critical for distinguishing between deoxy- and dideoxyribonucleotides," <i>Proc. Natl. Acad. Sci. USA</i> 92:6339-6343, The National Academy of Sciences (July 1995).
	AS	13	Tabor, S., and C.C. Richardson, "Effect of manganese ions on the incorporation of dideoxynucleotides by bacteriophage T7 DNA polymerase and <i>Escherichia coli</i> DNA polymerase I," <i>Proc. Natl. Acad. Sci. USA</i> 86:4076-4080, The National Academy of Sciences (1989).
mm	AT	13	Windberger, E., et al., " <i>Thermotoga thermarum</i> sp. nov. and <i>Thermotoga neapolitana</i> occurring in African continental solfataric springs," <i>Arch. Microbiol.</i> 151:506-512, Springer-Verlag (1989).

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## INFORMATION DISCLOSURE STATEMENT

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	14	Copy of International Search Report from Application No. PCT/US96/14189.
	AS		
	AT		

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